

CYRB_HUMAN

CYTOKINE RECEPTOR COMMON BETA CHAIN PRECURSOR (CDW131 ANTIGEN)

Begin - 1, End - 897

Seq: CYRB_HUMAN Length: 897 Fri Nov 17 13:50:29 2000 Check: 148

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1  MVLAAQGLLSM ALLALCWERS LAGAEETIPL QTLRCYNDYT SHITCRWADT
51  QDAOQLVNVNT LIRRVNEDIL EPVSCDLSDD MPWSACPYPYR CVPRRCVIPC
101  QSFVVTVDYF FSFQPDRLPG TRLTVTLTQH VQPPEPRDLQ ISTDQDHFL
151  TWSVALGSPO SHWLSPGDLF FEVVKYRLQD SWEDAAILLS NTSQATLGPE
201  HLMPSSTYVA RVTRTLAPGS RLSPRSPKWS PEVCWDSQPG DEAQPQNLKC
251  FFDGAAVLSC SWEVRKEVAS SVSFGLFYKP SPDAGEEECS PVLREGLGSL
301  HTRHHCQIFV PDPATHGQYI VSVQPRRAEK HIKSSVNQIM APPSLNVTKD
351  GDSYSLRWET MKMRYEHIDH TFEIQYRKDT ATWKDSKTTT LQNAHSMALP
401  ALEPSTRYWA RVRVRVTSRTG YNGIWEWSE ARSWDTESVL PMWVLALIVI
451  ELTIAVLLAL RFCGIYGYRL RRKWEEKIPN PSKSHLFQNG SAEIWPMSGM
501  SAFTSGSPPH QGFWGSRFPE LEGVFFVGFG DSEVSPLTIE DPKHVCDPSS
551  GDPDTPAASD LPTEQPPSPQ PGPPAASHTP EKQASSFDEN GPYLGPPHSR
601  SLPDILQOPE PPOEGGSQKS PPPGSLEYLC LPAGGQVQLV PLAQMGPQ
651  AVEVERRPSQ GAAGSPSLES GGGPAPPALG FRVGGQDQKD SPVAIPMSSG
701  DTEDPGVAVSG YVSSADLVT PNSGASSVSL VPSLGLPSDQ TPSLCPGLAS
751  GPPGAPGPVK SGFEGYVVELP PIEGRSPRSP RNNPVPPEAK SPVLPNGERP
801  ADVSPTSPQP EGLLVLQVQG DYCFLPGLGP GFLSLRSKPS SPGPGPBEIKN
851  LDQAFQVKKP PGQAVPQVVPV IQLFKALKQQ DYLSLPPWEV NKPGEVC

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FIG 1

KK11 HUMAN: STEM CELL GROWTH FACTOR RECEPTOR (PROTO-ONCOGENE TYROSINE-PROTEIN KINASE KIT) (C-KIT) (CD117) ANTIGEN).
SEQUENCE 976 AA; 109864 MW;

MRGARGAWDF LCVLILLLRV QTGSSQPSVS PGEPSPSPST PGKSDLIVRV GDEIRLLCTD
PGEWKWTETI LDETTENENKQN EWITEKAET NTERTYCTTNK HGLNSNLYVF VRDPAGLFLV
DRSILYGEDN DTLVRCPLTD PEVNTNLSLG COQKPLPKD LRFIDPKAGI MIKSUKRAIY
RLCICHCSVDQ EGKSVLSEKF ILKVRPAFKA VPIVVSVKAS YLREGEETF VTCITKDVS
SVTSLWRENN SQTLLSEKIN SWHHLGDNIE RNDNSGUFMC YANNNTFGSAN
VTTLEWVDK GFINLQPMIN TTWVFNNDGEN VDILIVEAF PKPEHQWY MNRTFDKWE
DYPRESENESN IRYVSELEHLT RLKGTEGGTY TFLVNSNDVN AIAFENVYN VTKPEIUYDR
L1VNGMLQCVQ AGFPEPTIDW YFCPGTEQRC SASVLPVDQ TLNSGPPFG KLVQSSIDS
SAFKHNGTVE CKAYNDVQKT SAYENFAFKG NNEQEIQIHT LFTPLIJGFV IVAGNMCIIV
MILTYKTLQK PMYEYOMKVV EETINENNNYY IDPTQLPDTD KWEFPNRLS FGKTLGAGAF
GKVVEATAYG LIKSDAMTY AVKMLKPSAH LTEREALMSE LKVLISLGNH MNIVNLIGAC
TIGGPTLIVIT EYCCYGDLLN FLRKRKDSFI CSKQEDIAEA ALYKNLHSK ESSCSDTNE
YMDMKPGVSY VVPTKADKRR SVRIGSYIER DTPAIMEDD EIAHDLEDLL SFSYQVAKGM
AFLASKNCIH RDLAARNILL THGRITKID FGLDRIKND SMYVVKGNAR LPVKVNAPE
TENCVYTFES DVWSYGIFLW ELFSLGSSSPY PGNPVDSKFY RMKEKEGFRML SPEHAAEMY
DINKTCNDAD PLKRPTFKI VQLIEKQISE STNHIYNSLA NCSPNQKPV VDHHSVIRNSV
GSTSSSSQPL LVHDDV

FIG 2

TPOR_HUMAN: THROMBOPOIETIN RECEPTOR PRECURSOR (TPO-R)
 (MYELOPROLIFERATIVE LEUKEMIA PROTEIN) (C-MPL).
 TPOR OR MPL.
 635 AA; 71244 MW

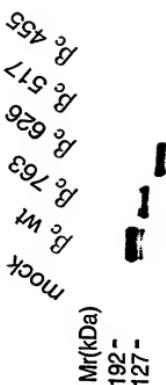
MPSWALPMTV SCLLIAQPNL AQVSSQDVSL LASDSEPLKC FSRTFEDJTC FWDEEEAAPS
 CTYQLIYAPP REKPAACPLS SQSNPHEFGTR YICQFDPQE VLEIFPLHLW VKNVLNQTR
 TORVLVDISV GLPAPPSSIIK AMGSSQPGEL QISFEEPAPE 1SDFLRTELW YGPRDPKNST
 GPTVIGLIAT ETCCPAQLRP HSASALDQSP CAQPTMPKQD GKFKTSPSRE ASALTABEGGS
 CLLISGQPGN SYWLQJLSEP DGISLGGSNG SWSLPVTVDL PGDAVALGQ CFTLDLKRNT
 COWQODHAS SQGFTYHSRA RCCRDRPVI WENCEEEERKT NEGLQTPQFS RCFHEFKERND
 TIHILFVNT APGTHASILG SPFHQAVR LPDPLNLEW 1SGHLLLEW QHPSWAAQE
 TCYQLYTG EGHQDKVLEP PLGRGFTLLE LRFRSRTLQ LRARLNGFTY QGPWSSWSDP
 TRVETATETTA WISLWTAHL VLGISAVLGH LLLRMWQPAH YRRLRHALWP SLPDLERLVLG
 QYLRDIAALS PPKAVVSDTC EEEVPSLLEI LPKESSEETPL PLCSQSQAMD YRRLQPSCLG
 TMPLSVCPMM AESGSCCTH IANHSYPLS YWQQP

FIG 3

TPOR, MOUSE: THROMBOPOIETIN RECEPTOR PRECURSOR (TPO-R)
 (MYELOPROLIFERATIVE LEUKEMIA PROTEIN) (C-MPL).
 TPOR OR MPL.
 625 AA, 69817 MW;

MPSMALFMVT SCLLIALPNC AQVTSQDVFL LALGTEPLNC FSQTFEDLTC FWDEEEAAAPS
 GTYQLIYAYR GERKRCAPLY SQVTSQFTR YVCQFAQDE VRLEFFPLHILW VKNVSLNQTL
 IQRVLFVDSV GLPAPPVRVK ARGSQSPQEL QHWEAAPE ISDFERHEILR YGPTDOSSNAT
 APSVFLQLLST ETCQPTLWMP NPYPVLDQPP CVHPTASQPH GPAPFLTVKG GSCLIVSGLOA
 SKSYMLQLRS QPDGVSLRGS WGFWSFPTVY DIPGDAVTIG LOCFTDLKM VTCQWQQQDR
 TSSQGFERHS RTRCQPTDQD PTWECQEEEE PRPGSQPALV SRCHFESRND SVIHLIVETV
 TAQGAVHSLI GSPWIIHQAV LLETPSLHWR ESSGRGLEE WQHQSSWAAQ ETCIQRYRTG
 EGREWVKVLE PSIGARGGTI ELPRPRAYSLI QLRARLNGPT YOGPNSAWSP PARVSTGSEN
 AWITLIVTALL LVLSALIG LLLKWKQPA HYRRHHLAW PSLPDJHRVL GOYLRDTAAL
 SPSKATVTD SCEEVEPSLLE IILPKSSSESTP LPICPSQPM DYRGHQPCLR TMPILSVCPPM
 AETGSCCTTH IANHNSYLPIS YWQQP

FIG 4

FIG 5A

73 -

Substitute Sheet

17 -

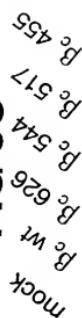
IP: anti 14-3-3 ζ
 WB: 1C1 (anti β_c)

GST-14-3-3-sepharose
 1C1 (anti β_c)

FIG 5B

73 -

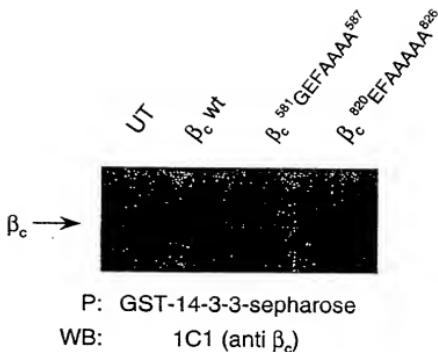
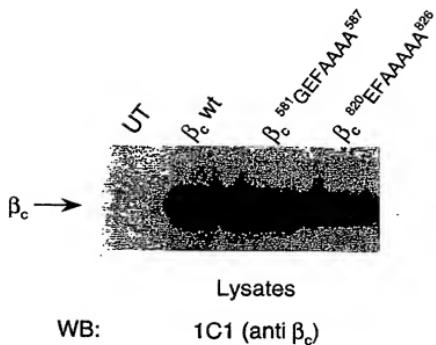
43 -
 32.3

FIG 5C

73 -

43 -
 32.3

GST-sepharose
 1C1 (anti β_c)

**FIG 6A****FIG 6B**

β_c peptides	{ CLGPPHRSRSLPDLIG	-	+	-	-	-	+	-	-	-	+
	CLGPPHRS <u>S</u> LPDLIG	-	-	+	-	-	-	+	-	-	-
Ref 1 peptides	{ CLSQQRQRSTTPNVHM	-	-	-	+	-	-	+	-	-	-
	CLSQQRQRST <u>T</u> PNVHM	-	-	-	-	-	+	-	-	-	-

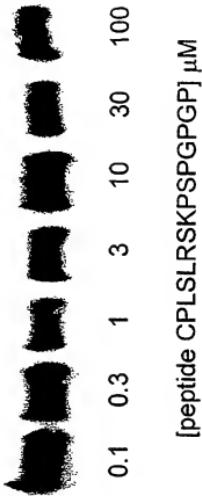
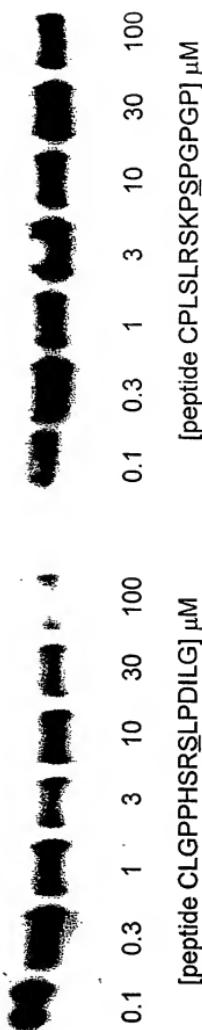


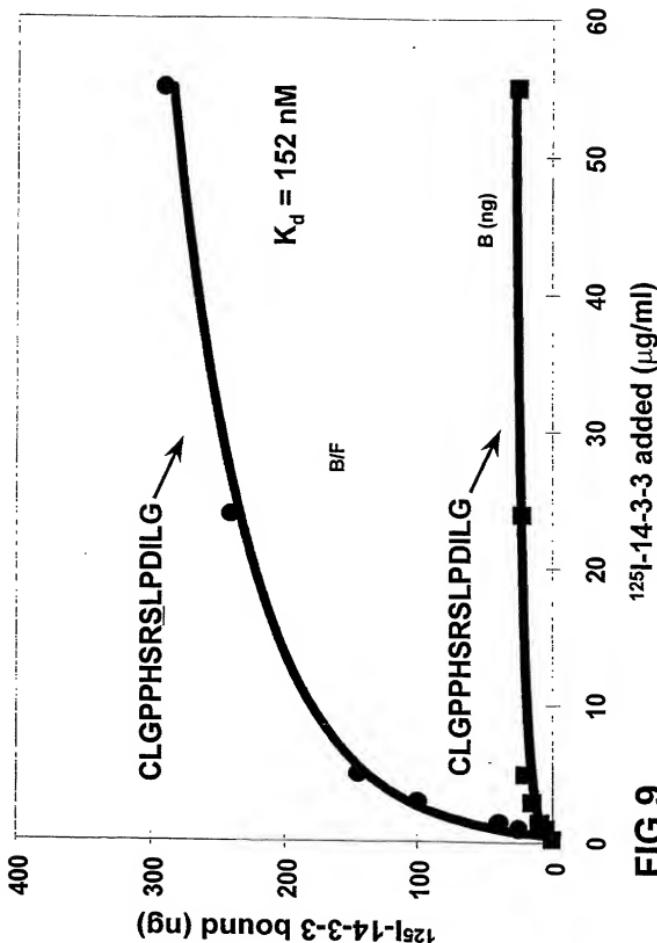
GST-14-3-3-sepharose

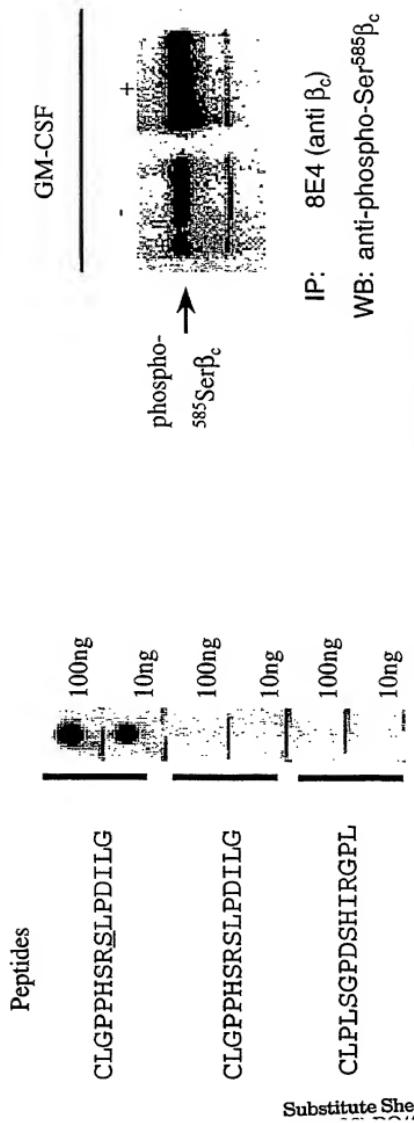
1C1 (anti β_c)
WB:

P:

FIG 7

FIG 8A**FIG 8C****FIG 8B****FIG 8D**





Substitute Sheet



FIG 10A



FIG 10B

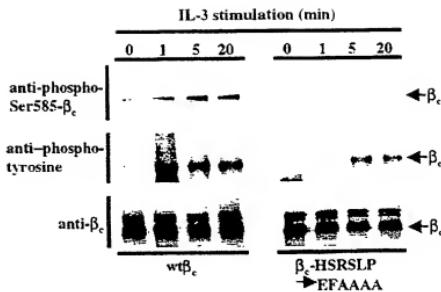


FIG 11A

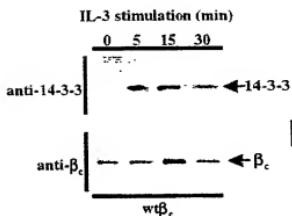


FIG 11B

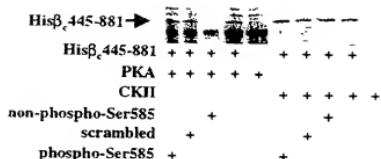


FIG 12A

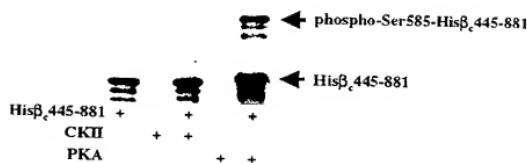


FIG 12B

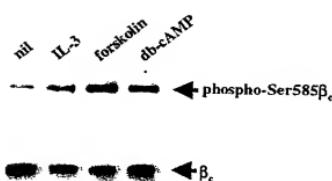


FIG 12C

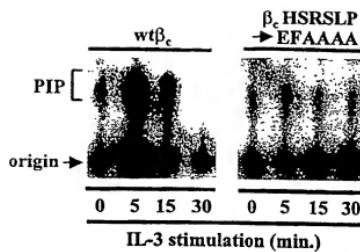


FIG 13A

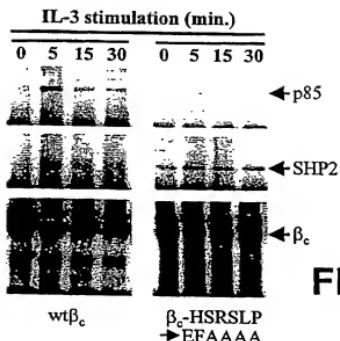


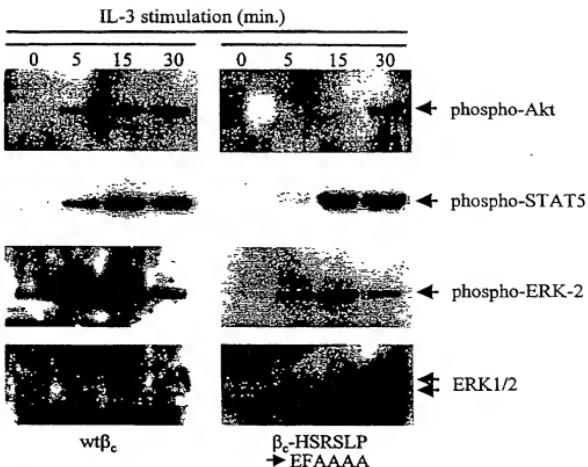
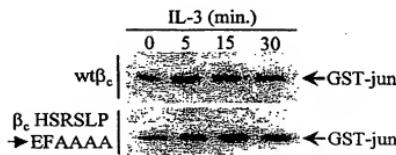
FIG 13B

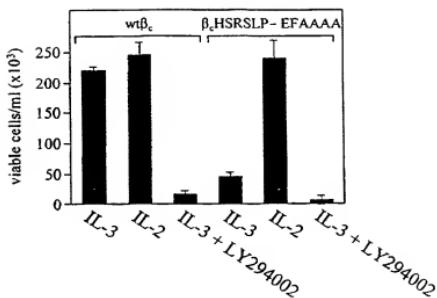
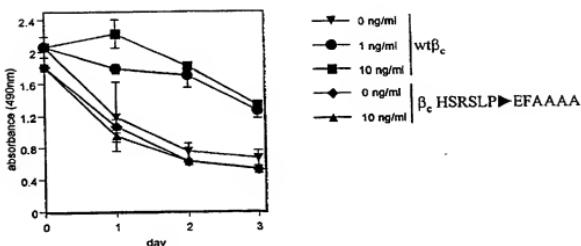
name	sequence
scrambled	CLPLSGPDSHIRGPL
Ser585Ala	CLGPPHSRALPDILG
non-phospho-Ser585	CLGPPHSRSLPDILG
phospho-Ser585	CLGPPHS <u>R</u> SLPDILG

FIG 13C



FIG 13D

**FIG 14A****FIG 14B**

**FIG 15A****FIG 15B**

	wt β_c		β_c HSRSLPmEFAAAA	
	G ₀ /G ₁	S + G ₂ /M	G ₀ /G ₁	S + G ₂ /M
asynchronous	37.3	62.7	36.0	64.0
starved	88.3	11.7	87.4	12.6
+ IL-3	64.7	35.3	64.3	35.7

FIG 16A

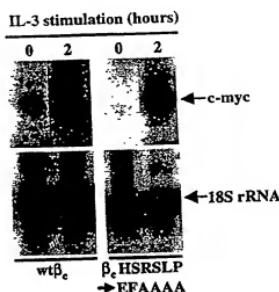


FIG 16B

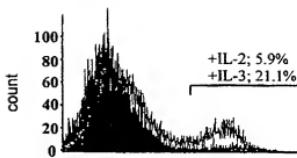


FIG 17A

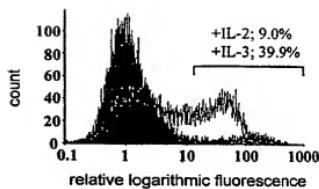
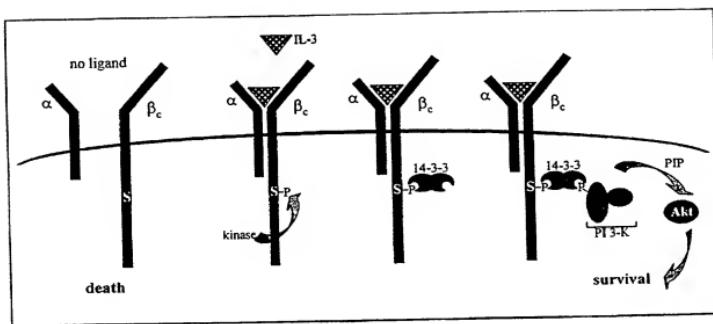
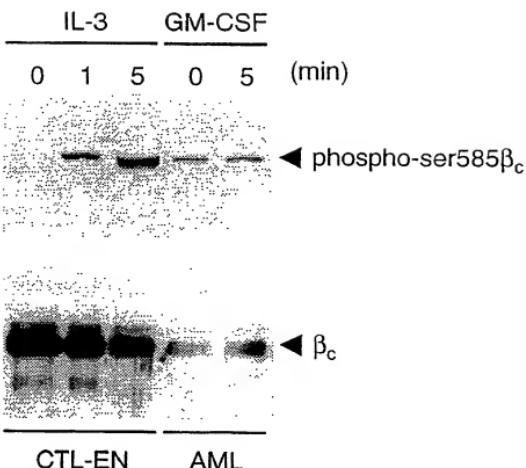


FIG 17B

**FIG 18**

**FIG 19A****FIG 19B**

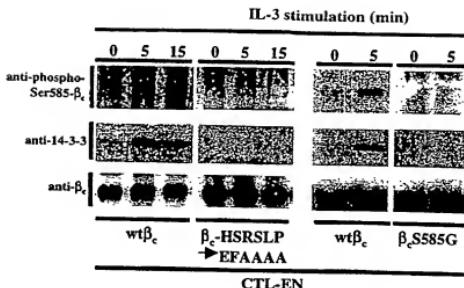


FIG 20A

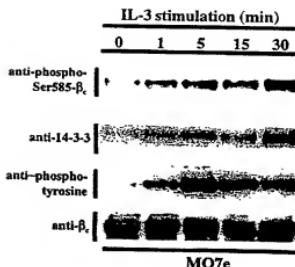


FIG 20B

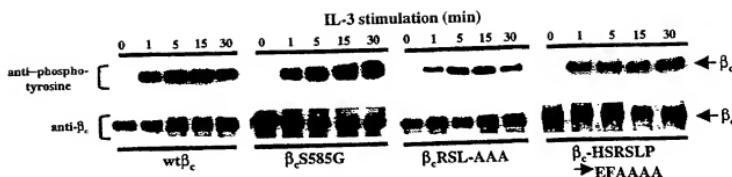


FIG 20C

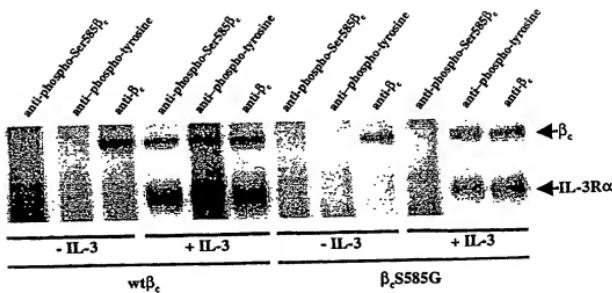


FIG 20D

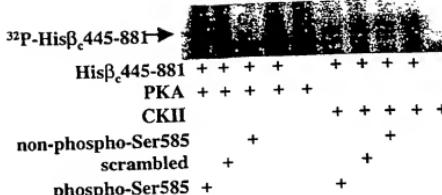


FIG 21A

phospho-Ser585-
His β_c 445-881 →

FIG 21B

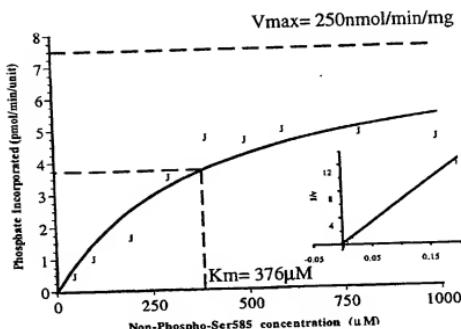
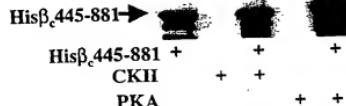


FIG 21C

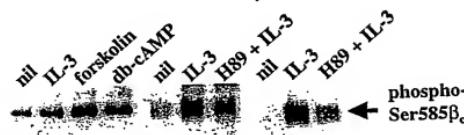
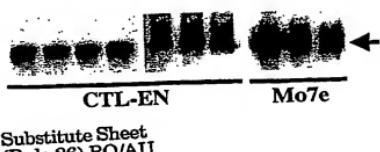


FIG 21D



Substitute Sheet
001 of 001 P0/ATI

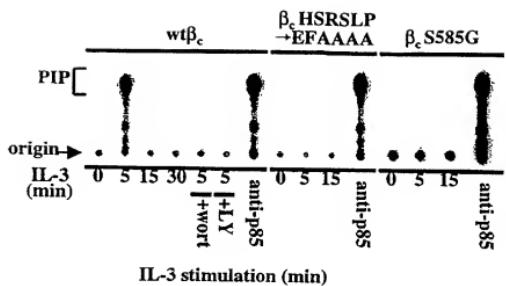


FIG 22A

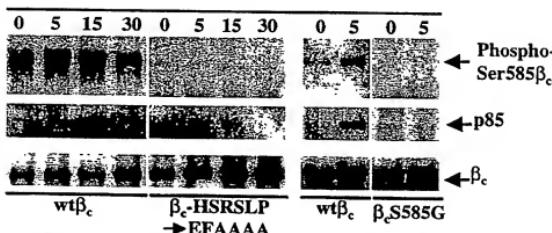


FIG 22B



FIG 22C

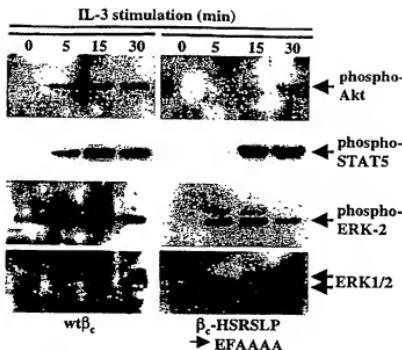


FIG 23A

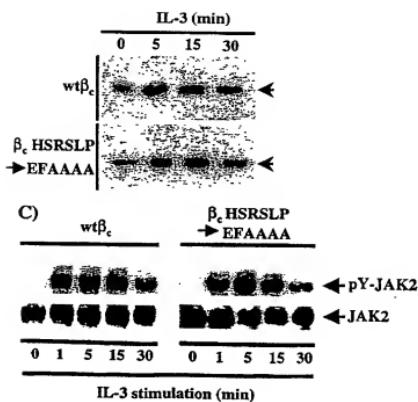
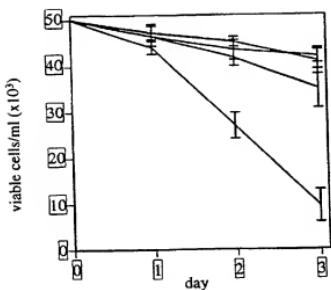
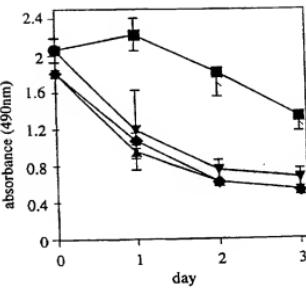


FIG 23B

**FIG 24A****FIG 24B**

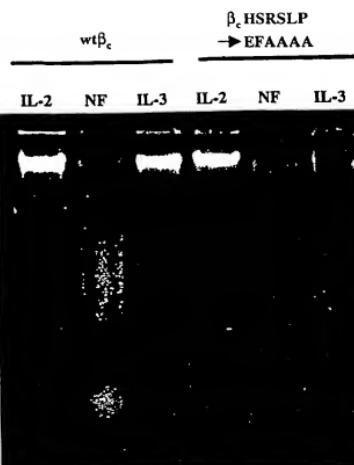


FIG 24C

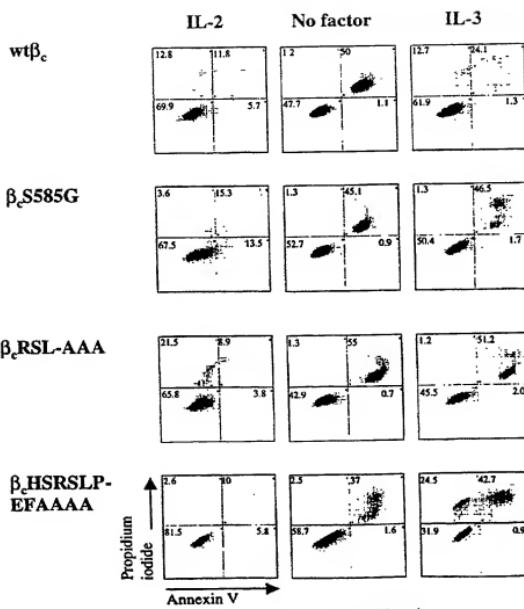


FIG 24D

	wt β_c		β_c HSRSLPmEF ^{AAA}	
	G ₀ /G ₁	S + G ₂ /M	G ₀ /G ₁	S + G ₂ /M
asynchronous	37.3	62.7	36.0	64.0
starved	88.3	11.7	87.4	12.6
+ IL-3	64.7	35.3	64.3	35.7

FIG 25A

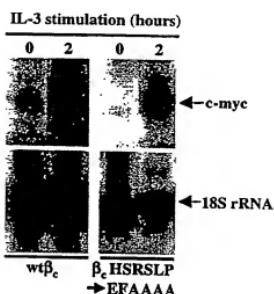


FIG 25B

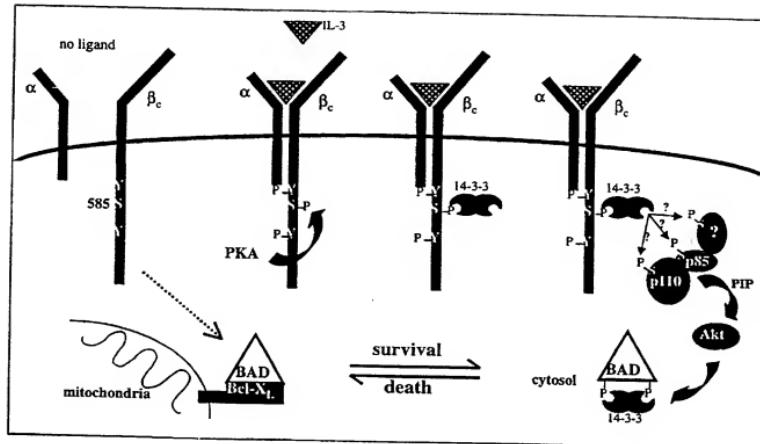


FIG 26

